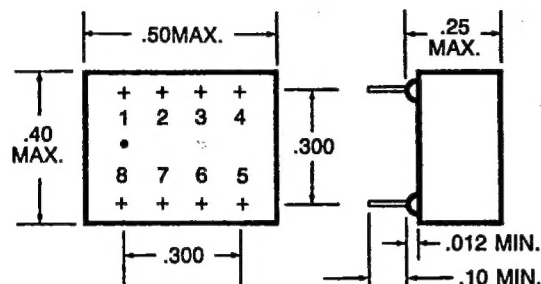
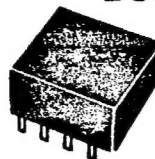


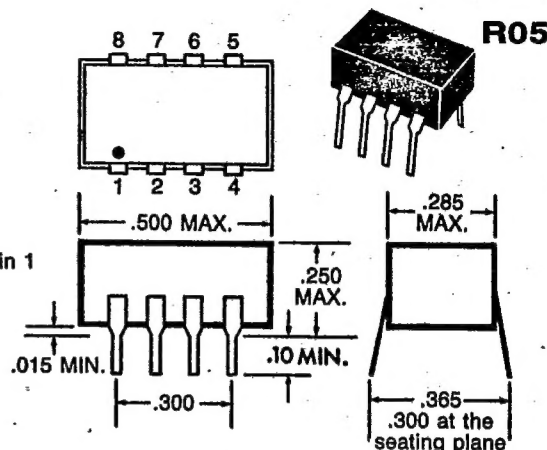
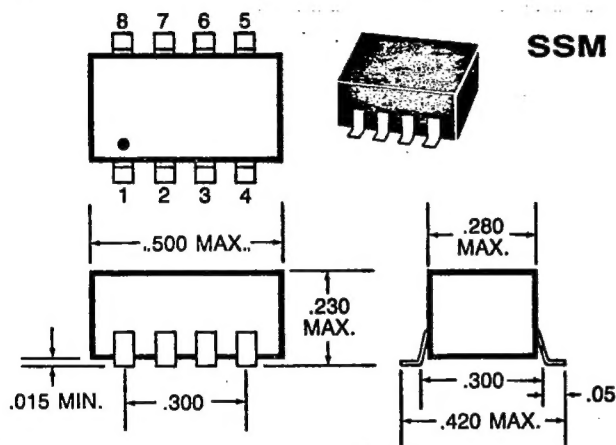
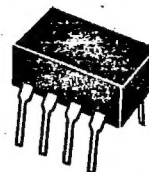
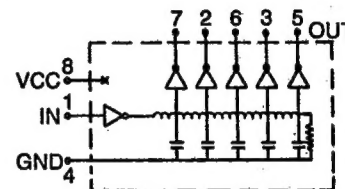
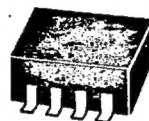
**YCL**

# DIL•DIP AND SURFACE MOUNTING DIGITAL DELAY LINES TTL COMPATIBLE 8 PIN PACKAGE

## SERIES D05, R05 AND SSM-5TAPS

**D05**

White Dot locates Pin 1

**R05****SSM**

MODEL NO.			TOTAL DELAY (ns)	DELAY TAP (ns)
SERIES D05	SERIES R05	SERIES SSM		
D05025	R05025	SSM-05025	25	5
D05030	R05030	SSM-05030	30	6
D05040	R05040	SSM-05040	40	8
D05045	R05045	SSM-05045	45	9
D05050	R05050	SSM-05050	50	10
D05075	R05075	SSM-05075	75	15
D05100	R05100	SSM-05100	100	20
D05125	R05125	SSM-05125	125	25
D05150	R05150	SSM-05150	150	30
D05200	R05200	SSM-05200	200	40
D05250	R05250	SSM-05250	250	50
D05300	R05300	SSM-05300	300	60
D05400	R05400	SSM-05400	400	80
D05500	R05500	SSM-05500	500	100

DC PARAMETERS		LIMITS	
		Min.	Max.
V <sub>oh</sub>	V <sub>cc</sub> = min I <sub>oh</sub> = 1.0mA	2.5V	—
V <sub>ol</sub>	V <sub>cc</sub> = min I <sub>ol</sub> = 20mA	—	0.5V
I <sub>ih</sub>	V <sub>cc</sub> = max V <sub>ih</sub> = 2.7V	—	50μA
I <sub>il</sub>	V <sub>cc</sub> = max V <sub>il</sub> = 0.5V	-2.0mA	—
I <sub>i</sub>	V <sub>cc</sub> = max V <sub>i</sub> = 5.5V	—	1.0mA
V <sub>i</sub>	V <sub>cc</sub> = min I <sub>in</sub> = -18 mdc	-1.2vdc	—
I <sub>cc</sub>	V <sub>cc</sub> = max outputs low	—	70mA

### SPECIFICATIONS:

- Supply voltage: 5.0VDC  $\pm$  10%
- Delay tolerances:  $\pm$  2ns or  $\pm$  5% wig
- Minimum pulse width: 40% of Total Delay
- Maximum duty cycle: 50%
- Rise time: 4ns max
- Operating temp. range: 0°C to +70°C
- Temp. coeff. of delays: 1.0ns + 500ppm/°C
- Terminals: .020w x .010th., alloy 42

### TEST CONDITIONS:

- V<sub>cc</sub> = 5.0VDC, Temp. 25°C  $\pm$  5°C
- Time delay measured at the 1.5V level
- Rise time measured from .75V to 2.4V
- All outputs loaded with 15pf
- Input Test Pulse:
  - Pulse Voltage: 3.0V
  - Pulse rise time: 2ns
  - Pulse width: 1.2 x max T<sub>d</sub>
  - Pulse spacing: 5 x max T<sub>d</sub>